



PRODUCT SPECIFICATIONS

B & B Sheet Metal, 25-40 50th Avenue,
Long Island City, New York 11101
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SECTION 07 62 00 - SHEET METAL FLASHINGS AND TRIM

PART 1 - GENERAL

1.1 SUMMARY

- A. Section includes: [Custom fabricated] [Manufactured] sheet metal flashings to prevent water penetration and direct flow of water and sheet metal trim to cover and protect joints and surfaces, to prevent water penetration, and provide decorative moldings and borders including:
1. Base and counterflashings.
 2. Through wall flashings.
 3. Flange tubes.
 4. Pitch pockets.
 5. Gravel stop.
 6. Drip edge.
 7. Fascia system.
 8. Window sills.
 9. Moldings and trim.
 10. [_____].
- B. Related sections:
1. Section [04 20 00 - Unit Masonry] [09 24 00 - Portland Cement Plastering [_____]: Exterior wall penetrations, terminations, and transitions to roofing system to receive sheet metal flashings and trim.
 2. Section 06 10 00 - Rough Carpentry: Wood curbs, nailers, sheet backing, and blocking for attachment of sheet metal flashings and trim.
 3. Section [07 30 33 - Steep Slope Roofing] [07 41 00 - Metal Roof Panels] [07 50 00 – Membrane Roofing] [_____]: Roof system and flexible base flashings to receive sheet metal flashings, counterflashings, and trim.



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4. Section 07 42 13 - Metal Wall Panels: Exterior sheet metal wall panel system to receive sheet metal flashings and trim.
5. Section [07 72 00 - Roof Accessories] [_____]: Roof mounted [equipment curbs] [roof hatches] [smoke vents] [_____] to receive sheet metal flashings and counterflashings.
6. Section 07 92 00 - Joint Sealants: Sealants and backing material used for installation of sheet metal.
7. Section [08 10 00 - Doors and Frames] [_____]: Door frames to receive sheet metal flashings and trim.
8. Section [08 50 00 - Windows] [_____]: Window units to receive sheet metal sills and flashings.
9. Section 08 60 00 - Roof Windows and Skylights: Roof-mounted units to receive sheet metal flashings and counterflashings.

1.2 REFERENCES

- A. American Society for Testing and Materials (ASTM):
 1. ASTM A167 - Stainless and Heat-Resisting Chromium-Nickel Steel Plate, Sheet, and Strip.
 2. Section A308 - Steel Sheet, Terne (Lead-Tin Alloy) Coated by Hot-Dip Process.
 3. ASTM A653 - Steel Sheet, Zinc-Coated (Galvanized) or Zinc-Iron Alloy-Coated (Galvannealed) by Hot-Dip Process.
 4. ASTM B32 - Solder Metal.
 5. ASTM B101 - Lead-Coated Copper Sheet and Strip for Building Construction
 6. ASTM B209 - Aluminum and Aluminum-Alloy Sheet and Plate.
 7. ASTM B370 - Copper Sheet and Strip for Building Construction.
- B. National Roofing Contractors Association (NRCA): NRCA Roofing Manual.
- C. Sheet Metal and Air Conditioning Contractors National Association (SMACNA) –



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SMACNA Architectural Sheet Metal Manual.

1.3 SUBMITTALS

- A. Submit in accordance with Section 01 33 00 - Submittal Procedures:
 - 1. Product data.
 - 2. Shop drawings for sheet metal flashings and trim showing profiles, dimensions, material gauges, fastening methods, and installation details for actual Project conditions. Where appropriate, provide perspective sketches or photographs to illustrate design.
 - 3. Sample of selected material and finish.
 - 4. Manufacturer's installation and maintenance instructions.

1.4 QUALITY ASSURANCE

- A. Manufacturer: Company specializing in standard and custom fabrication of sheet metal flashings, trim, and other fabrications with 5 years minimum successful, documented experience.
- B. Perform work in accordance with applicable details and requirements published in NRCA Roofing Manual and SMACNA Architectural Sheet Metal Manual.

1.5 HANDLING

- A. Deliver, store, and handle sheet metal flashings and trim to prevent denting, scratching, breaking, gouging, abrasion, soiling, discoloration, staining, or other damage.
- B. Stack preformed material to prevent twisting, bending, or abrasion. Provide ventilation.
- C. Prevent contact with materials during storage which may cause discoloration, staining, or damage.

PART 2 - PRODUCTS

2.1 ACCEPTABLE MANUFACTURERS

- A. B & B Sheet Metal, Inc.
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- B. Requests to use equivalent products of other manufacturers shall be submitted in accordance with Section 01 25 13 - Product Substitution Procedures.

2.2 MATERIALS

- A. Galvanized sheet steel: Zinc-coated steel sheet complying with ASTM A653, [26] [24] gauge thick.
- B. Kynar finished galvanized sheet steel: Zinc-coated steel sheet complying with ASTM A653 in [24] [22] gauge thickness and pre-finished with fluoropolymer Kynar coating in color selected by Architect from manufacturer's full range.]
- C. Copper sheet: Plain copper sheet complying with ASTM B370 and weighing [16] [20] ounces per square foot.
- D. Pre-patinaed copper sheet: Copper sheet weighing [16] [20] ounces per square foot and complying with ASTM B370 with greenish-brown patina oxidation film; Evergreen Copper as provided by B & B Sheet Metal.
- E. Lead-coated copper: Copper sheet with a thin lead coating complying with ASTM B101 and weighing [16] [20] ounces per square foot.
- F. Zinc-coated copper: Copper sheet with a thin zinc coating complying with ASTM [_____] and weighing [16] [20] ounces per square foot; Freedom Gray Copper as provided by B & B Sheet Metal.
- G. Stainless steel: [26] [24] gauge corrosion resistant chromium, tin, and steel alloy complying with ASTM A167.
- H. Terne-coated stainless steel: 26 gauge stainless steel sheet with a hot dipped lead and tin terne coating complying with ASTM A167 and ASTM A308.
- I. Aluminum sheet: [0.032] [0.040] [0.050] [0.063] inch thick aluminum sheet complying with ASTM B209 and [mill finished.] [finished with fluoropolymer Kynar coating in color selected by Architect from manufacturer's full range.]
- J. Sealant: [Silicone] [Polyurethane] [Acrylic] [_____] type specified in Section 07
92 00 - Joint Sealants.



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K. Solder: ASTM B32.

2.3 GENERAL FABRICATION

- A. Fabricate sections to profiles and dimensions indicated on Drawings and reviewed shop drawings.
- B. Form sections true to shape, accurate in size, square, and free from distortion or defects.
- C. Linear components: Form in longest possible lengths with 8 foot as minimum.
- D. Intersections: Cope to fit accurately and solder.
- E. Edges: Turn back all exposed edges to form 1/2 inch hem.
- F. Unless shown otherwise on Drawings, fabricate vertical faces with bottom edge formed outward 1/4 inch and hemmed to form drip.
- G. Soldering: Clean and tin materials. Completely fill seams with solder. Soldering on exposed finished surfaces shall be neat, full flowing, and smooth. After soldering, remove flux and wipe and wash joints clean.
- H. Design and fabricate exposed to view sheet metal flashings and trim to be securely and rigidly installed with concealed, interlocking cleats and brackets of same sheet metal material and other concealed fasteners of type, size, and spacing as recommended by manufacturer.
- I. Make provisions for thermal expansion and contraction of sheet metal to prevent distortion, damage, or failure to prevent water penetration.

2.4 SHEET METAL FLASHINGS

- A. Fabricate flashings from [galvanized sheet steel.] [Kynar finished galvanized sheet steel.] [copper sheet.] [pre-patinaed copper sheet.] [lead-coated copper sheet.] [zinc-coated copper sheet.] [stainless steel sheet.] [terne-coated stainless steel sheet.] [mill finished aluminum sheet.] [aluminum sheet finished with fluoropolymer Kynar coating.] to profiles and dimensions shown on Drawings and reviewed shop drawings and to prevent water penetration and to direct flow of water.
- B. Base flashings: L-shaped flashing designed to fit under edge of roofing [membrane]



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[material] and transition up against adjacent vertical [wall] [parapet wall] [_____] surface and be covered by counterflashing. Leg shall extend 6 inches minimum beneath roofing.



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- C. Counterflashings: Flashing designed to attach to vertical [wall] [_____] surface and cover, protect, and seal base flashing. Form to extend 6 inches minimum over base flashing. Attach to vertical surface [by embedding flashing flange into masonry mortar joints.] [screwing to wall sheathing and covering with wall [cladding.] [finish.]] [by inserting into dovetail reglet cast into concrete wall.] [by surface mounting to vertical surface and sealing top edge with sealant.] [_____] Counterflashings shall be designed for independent installation from base flashing to allow for thermal movement.
- D. Through wall flashings: Flashing designed for installation in [masonry veneer] [cladding panel] [rain screen cladding] [_____] cavity wall system and to collect water penetrating into cavity and diverting water to weep holes in veneer. Form flashings to attach to back-up wall, extend across cavity, and through veneer, and terminate with a drip edge.
1. Coordinate provision of through wall flashings with construction of cavity wall and placement of weep holes.
 2. Provide through wall flashings for base of cavity wall, below window sills, and at the head of window, door, and other wall openings.
- E. Flange tubes: Water tight tube with flange soldered to one end that can be used to flash roof penetrations and roof mounted supports, equipment, and other components.
1. Tube size: [_____] inches diameter by [_____] inches long.
 2. Flange size: [_____] by [_____] inches.
- F. Pitch pockets: Open box-shaped fabrication with flanges for mounting on roof deck around irregularly shaped penetration, flashed into roof membrane, and filled with pourable sealer to waterproof penetration.
1. Nominal size: [_____] by [_____] inches by [3] [_____] inches deep.
 2. Flange width: [4] [_____] inches.
- G. Step flashings: Sheet metal flashing system for sealing the intersection of [sloping roof deck] [_____] with vertical [masonry wall] [_____] consisting of a series of Z-shaped, overlapping, stepped, sheet metal, base flashing strips with the upper flange [embedded in masonry mortar joints] [_____] and bottom flanged installed beneath the roof membrane.
- H. Provide [ledge] [expansion] [_____] and other special use flashings as detailed on Drawings and reviewed shop drawings and as required to provide a watertight building envelope.



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2.5 SHEET METAL EDGE AND FASCIA SYSTEMS

- A. Gravel stops: Provide continuous sheet metal roof edge fabrication with vertical front face and sloped rear face as detailed on Drawings to prevent gravel surfacing from being washed off roof.
1. Provide with flange for flashing into roof system specified in Section 07 51 00 – Built-Up Bituminous Roofing.
 2. Fabricate with drip edge and cleats for fastening to wood blocking at roof edge.
- B. Drip edges: Provide continuous sheet metal edging at [roof eave] [roof overhang] [sunscreen] [_____] to prevent water from running back under overhanging component. Form drip edge to dimensions and profile shown on Drawings. Provide with flange for flashing into roof system and cleats for fastening to wood blocking at roof edge.
- C. Fascia system: Provide flat sheet metal fascia for covering [roof eave] [roof overhang] [canopy edge] as detailed and dimensioned on Drawings. Fabricate with [overlapping] [flush seamed] [standing locked seam] [batten seam] joints and perimeter trim. Design and fabricate fascia system with concealed [fasteners and cleats] [_____] as required to provide secure, rigid installation.

2.6 SHEET METAL MOLDINGS AND TRIM

- A. Fabricate sheet moldings and trim form [galvanized sheet steel.] [Kynar finished galvanized sheet steel.] [copper sheet.] [pre-patinaed copper sheet.] [lead-coated copper sheet.] [zinc-coated copper sheet.] [stainless steel sheet.] [terne-coated stainless steel sheet.] [mill finished aluminum sheet.] [aluminum sheet finished with fluoropolymer Kynar coating.] to profiles and dimensions shown on Drawings and reviewed shop drawings and to cover and protect joints and surfaces, to prevent water penetration, and provide decorative moldings and borders.
- B. Window sills: Provide formed sheet metal window sills to be installed over rough wood blocking for exterior window units specified in Section [08 50 00 - Windows] [_____]. Design, profile, and dimensions shall be as indicated on Drawings and reviewed shop drawings.
1. Provide with sloped horizontal surface terminating with drip edge.
 2. Sheet metal sill shall completely cover blocking such that no wood is exposed.



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- C. Moldings and trim: Provide continuous sheet moldings and trim as shown on Drawings and reviewed shop drawings. Provide with flanges for flashing into roof system and cleats for fastening to wood blocking at roof edge.



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1. Eave trim: [_____].
2. Base flashing: [_____].
3. Corner trim: [_____].
4. Window and door trim: [_____].
5. J trim: [_____].
6. Wall moldings: [_____].
7. Closure trim: [_____].
8. [_____].
9. Decorative brackets: Form with water jet cut parts with ornamental designs as indicated on Drawings.
10. Sign plaques: Flat sheet metal panels with waterjet cut graphics.

PART 3 - EXECUTION

3.1 PREPARATION

- A. Coordinate provision of sheet metal flashings and trim with the following to ensure compatibility of components and that provisions are made to receive and anchor sheet metal:
 1. Embedment of dovetail reglets in concrete walls to receive counterflashings. Verify accuracy of reglet placement.
 2. Provision of wood curbs, nailers, backing, and blocking for support and attachment of sheet metal flashings and trim.
 3. Erection of unit masonry walls to receive through wall and other flashings in mortar joints.
 4. Exterior wall cladding to receive sheet metal trim.
 5. Metal panel roof system to receive sheet metal trim.
 6. Application of roof membrane to receive flashings and construction of base flashings



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- to receive sheet metal counterflashings.
7. Installation of exterior door frames and window units to receive sheet metal trim, sills, and flashings.
 8. Installation of skylights, roof windows, equipment curbs, roof hatches, smoke vents, and other roofing accessories to receive sheet metal flashings and counterflashings.
 9. [_____].
- B. Deliver sheet metal to site in time for accurate placement and coordination with other work.
 - C. Verify roof membrane terminations and base flashings are in place, sealed, and secure.
 - D. Coat dissimilar materials in contact with sheet metal:
 1. Concrete and masonry: One coat bituminous paint.
 2. Wood: 2 coats aluminum paint.

3.2 INSTALLATION

- A. Install sheet metal flashings and trim in accordance with Drawings, reviewed shop drawings, manufacturer's instructions and standards of workmanship as published by SMACNA.
- B. Do not allow sheet metal to come in contact with dissimilar materials.
- C. Do not install bent, twisted, scratched, or otherwise damaged sheet metal fabrications. Remove from site and replace.
- D. Erect sheet metal plumb and level without bulges or waves.
- E. Provide watertight joints to accommodate thermal expansion and contraction
- F. Fit sheet metal fabrications tight in place. Make corners square, and surfaces true and straight in planes.
- G. Secure sheet metal in place using concealed fasteners unless shown otherwise. Lap and seal all joints. Exposed fasteners shall be covered with sealant.
- H. Protect finishes of exposed to view sheet metal fabrications. Avoid gouging, scratching, and denting. Use cotton gloves when handling and installing unprotected sheet metal in



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order to avoid soiling exposed to view surfaces.

3.3 CLEANING

- A. Remove excess sealant by moderate use of mineral spirits or other solvent acceptable to sealant manufacturer.
- B. Exercise care in removing mortar, cementitious materials, and sand from exposed-to-view flashings, fascia, and trim. Do not wipe surfaces in order to avoid scratching.
- C. Wash exposed surfaces with solution of mild detergent applied with soft cloth. Wipe surfaces clean.

END OF SECTION